Garrett Beatty

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Education

- **The College of New Jersey** Ewing, NJ
  Bachelor of Science in Computer Science *Aug. 2015 - May 2019*
  - Advanced Courses: Natural Language Processing, High Performance Computing, Combinatorics
  - Co-Founder/President: TCNJ Table Tennis Club

Work Experience

- **Lockheed Martin** Moorestown, NJ
  Software Engineering Intern *Jun. 2018 - Aug. 2018*
  - Worked on an Agile team to support the development of the Aegis Combat System using Java and C++.
  - Automated parts of the build process using Jenkins, Python, and Bash.
  - Collaborated with a team of 6 interns to simulate a vehicle that can transport and fire a rocket at a target using MATLAB.
- **The College of New Jersey** Ewing, NJ
  Student Researcher - Machine Learning (ML) *Jan. 2017 - Dec. 2017*
  - Designed a machine learning infrastructure with a team of 5 students and faculty in Python using machine learning and statistical analysis libraries such as scikit-learn, numpy, pandas, and matplotlib.
  - Improved the speed of the infrastructure by 95% by adding support for parallel processing on the High Performance Cluster (HPC).
- **Comcast** Philadelphia, PA
  Software Engineering Intern *Jun. 2016 - Aug. 2016*
  - Increased the efficiency of the Quality Assurance team by creating a Node.js application that automatically generates unit testing reports, which can be filtered by date, device type, operating system, etc.
  - Collaborated with another intern to create a web application in C#, HTML, and Javascript that connects to an SQL database to retrieve customer session information.

Projects

- **Android Application - "arXiv eXplorer"**
  arxiv.gbt.codes
  - Published an Android application with over 5,000 downloads that allows users to browse, search, and download scientific papers from arxiv.org.
  - Java, Butterknife, OkHttp, Sugar ORM, arXiv API, Travis CI, Fastlane
- **Photo Location Visualizer**
  photo.gbt.codes
  - Created a web application that allows users to see their photos on Google Maps based on their geo-location metadata.
  - Python, Flask, Heroku, Google Maps API, Google Picasa API

Skills

- **Proficient:** Python, Java
- **Past Experience:** C, C++, C#, SQL, Ruby, PHP, Node.js, Perl, Javascript, MATLAB, HTML, CSS, Jade, Bash
- **Tools:** Git, ClearCase, Jenkins, Travis CI, Postgres, MariaDB, Linux/UNIX, Heroku, SLURM, Fastlane
- **Libraries/Frameworks:** scikit-learn, numpy, pandas, matplotlib, Keras, OpenCV, Flask, Django, Robot Framework, Butterknife, OkHtttp

Publications

"The Use of Unlabeled Data versus Labeled Data for Stopping Active Learning for Text Classification", *Proceedings of the 2019 IEEE 13th International Conference on Semantic Computing (ICSC), Newport Beach, CA, 2019.*

"Impact of Batch Size on Stopping Active Learning for Text Classification", *Proceedings of the 2018 IEEE 12th International Conference on Semantic Computing (ICSC), Laguna Hills, CA, 2018.*